

**FIG. 1**

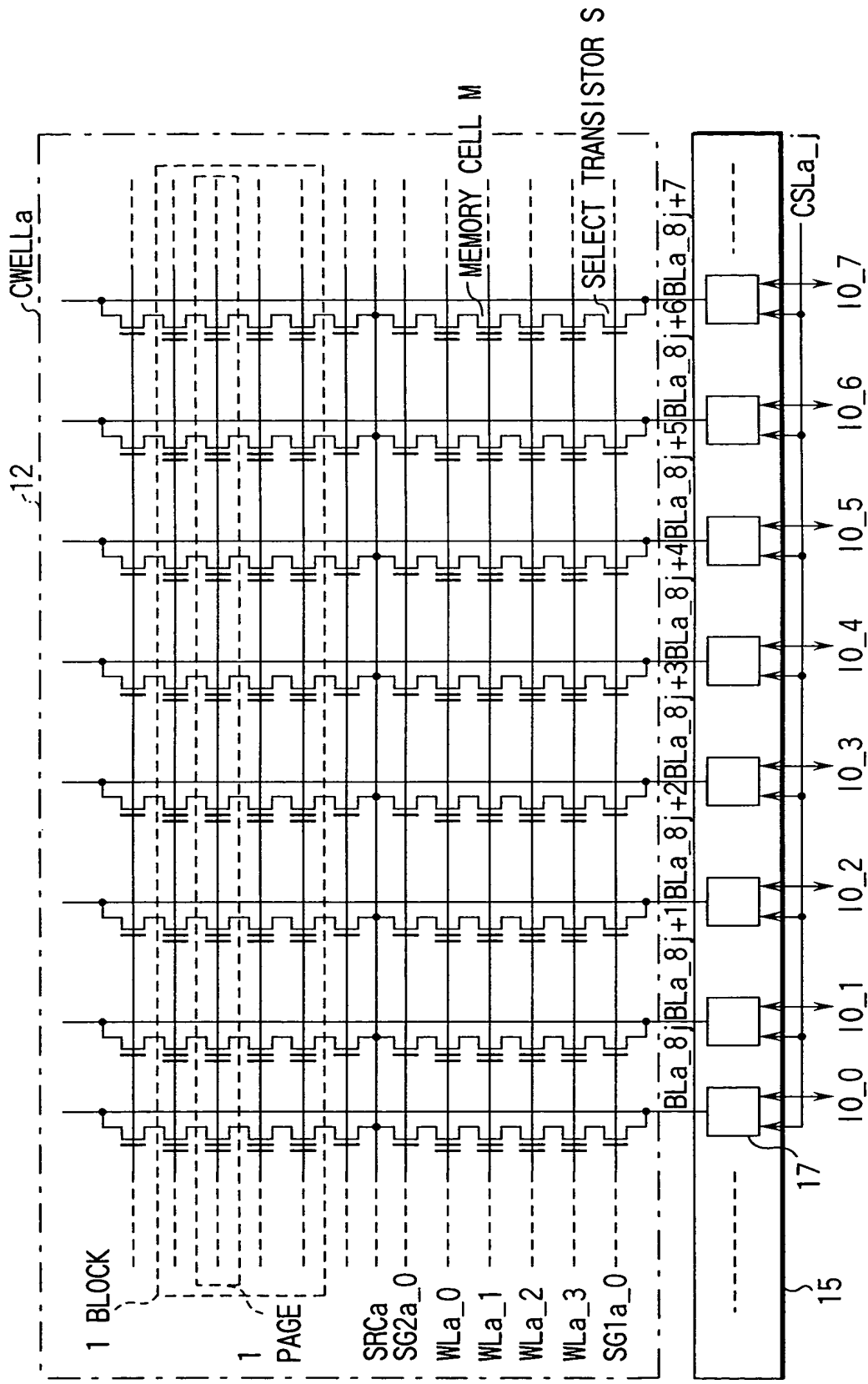


FIG.2

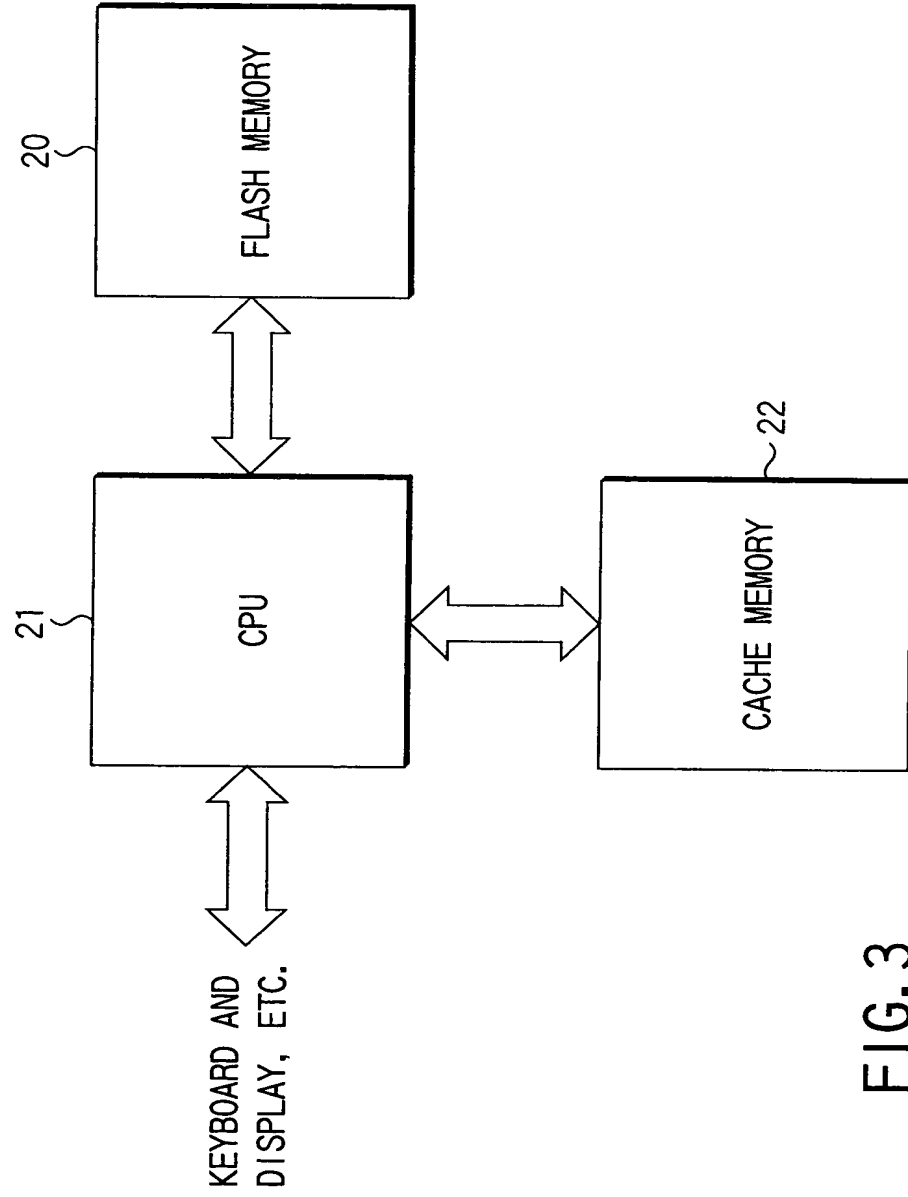


FIG. 3

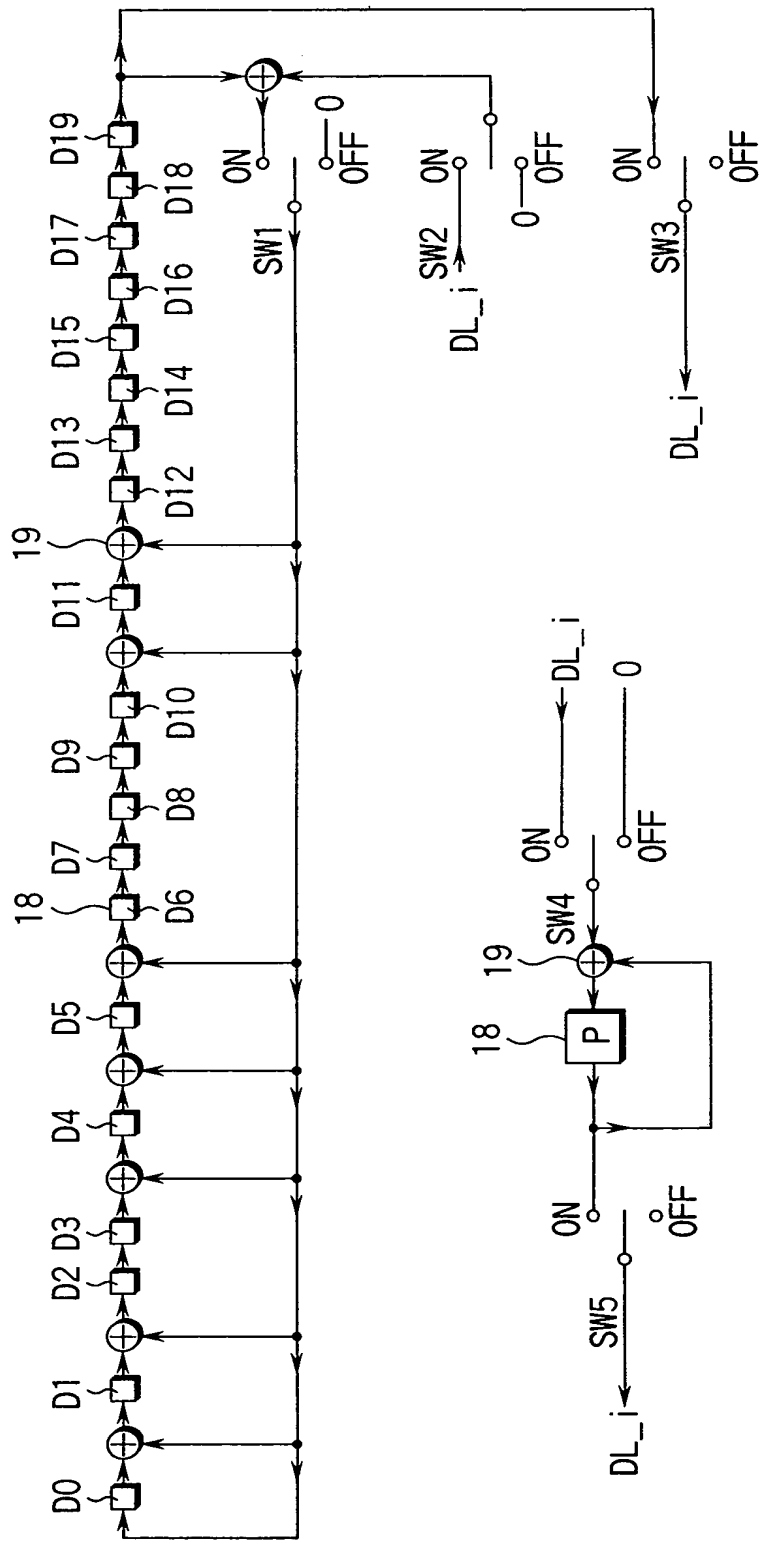


FIG. 4

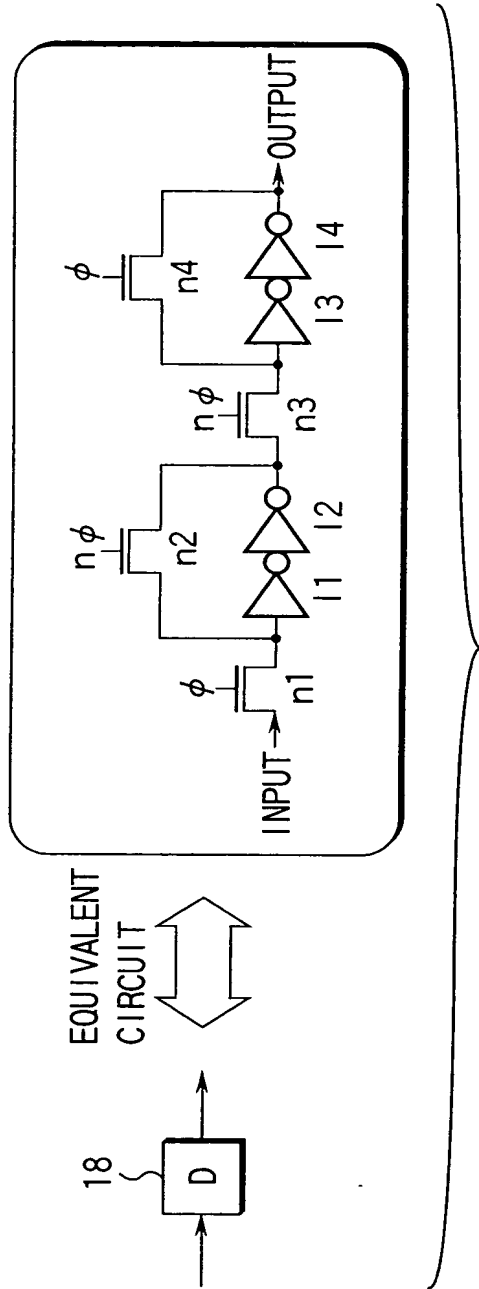


FIG. 5A

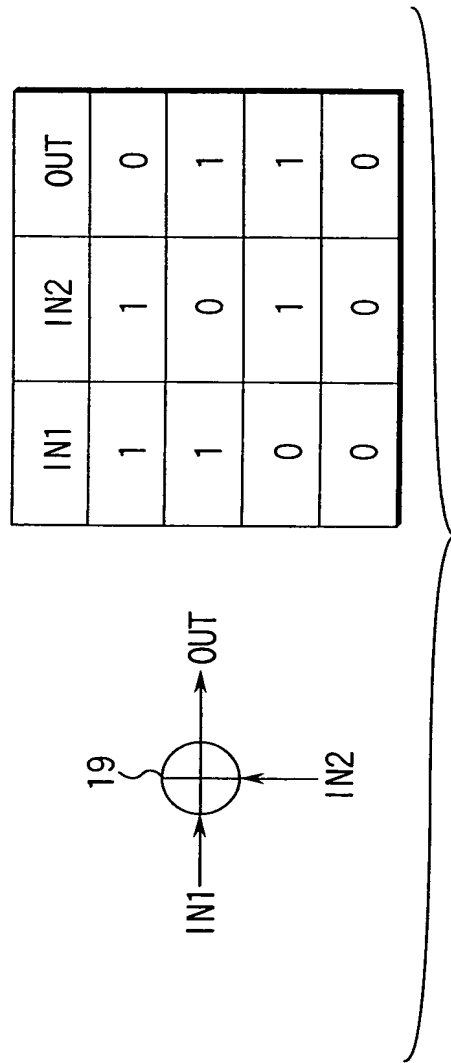


FIG. 5B

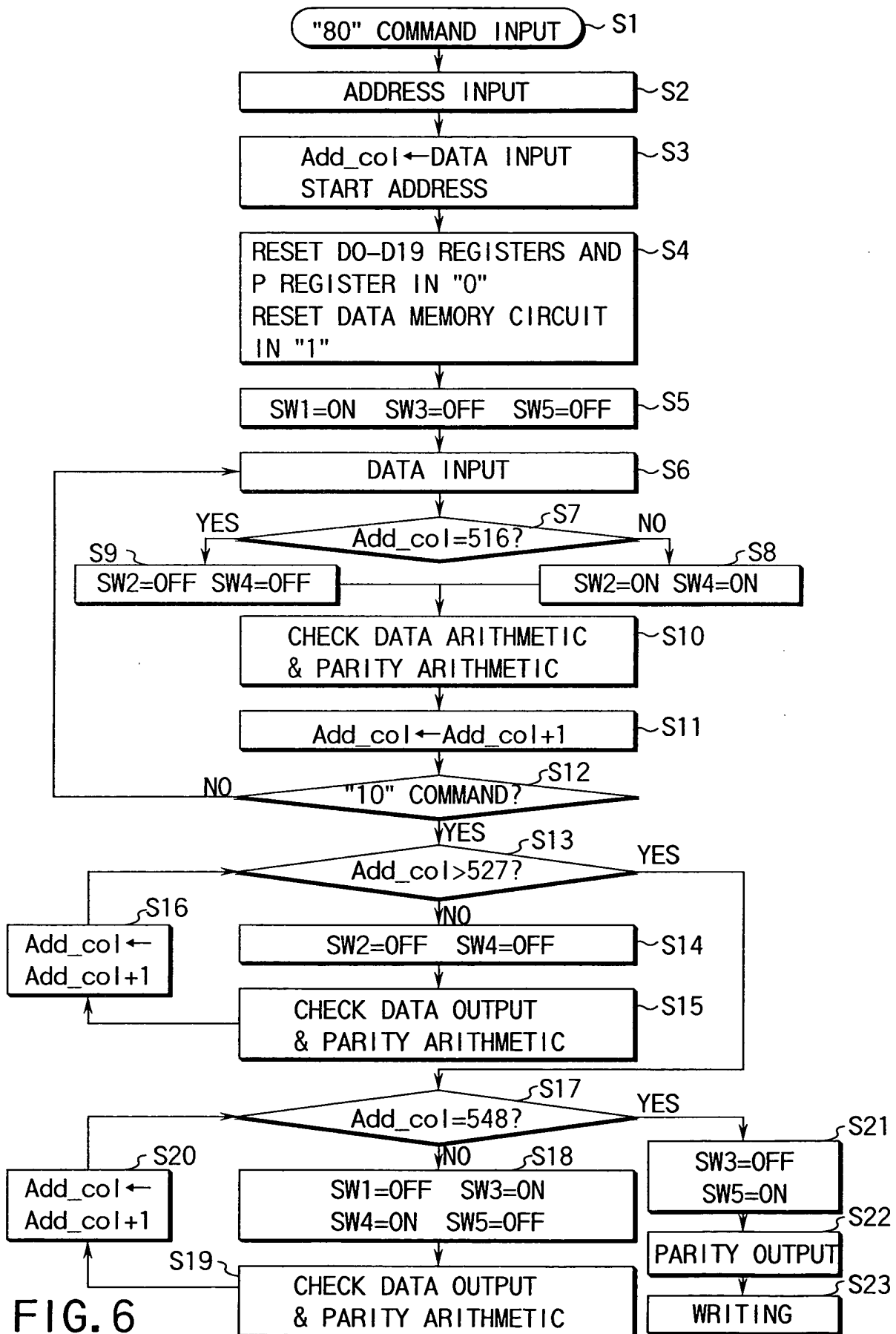


FIG. 6

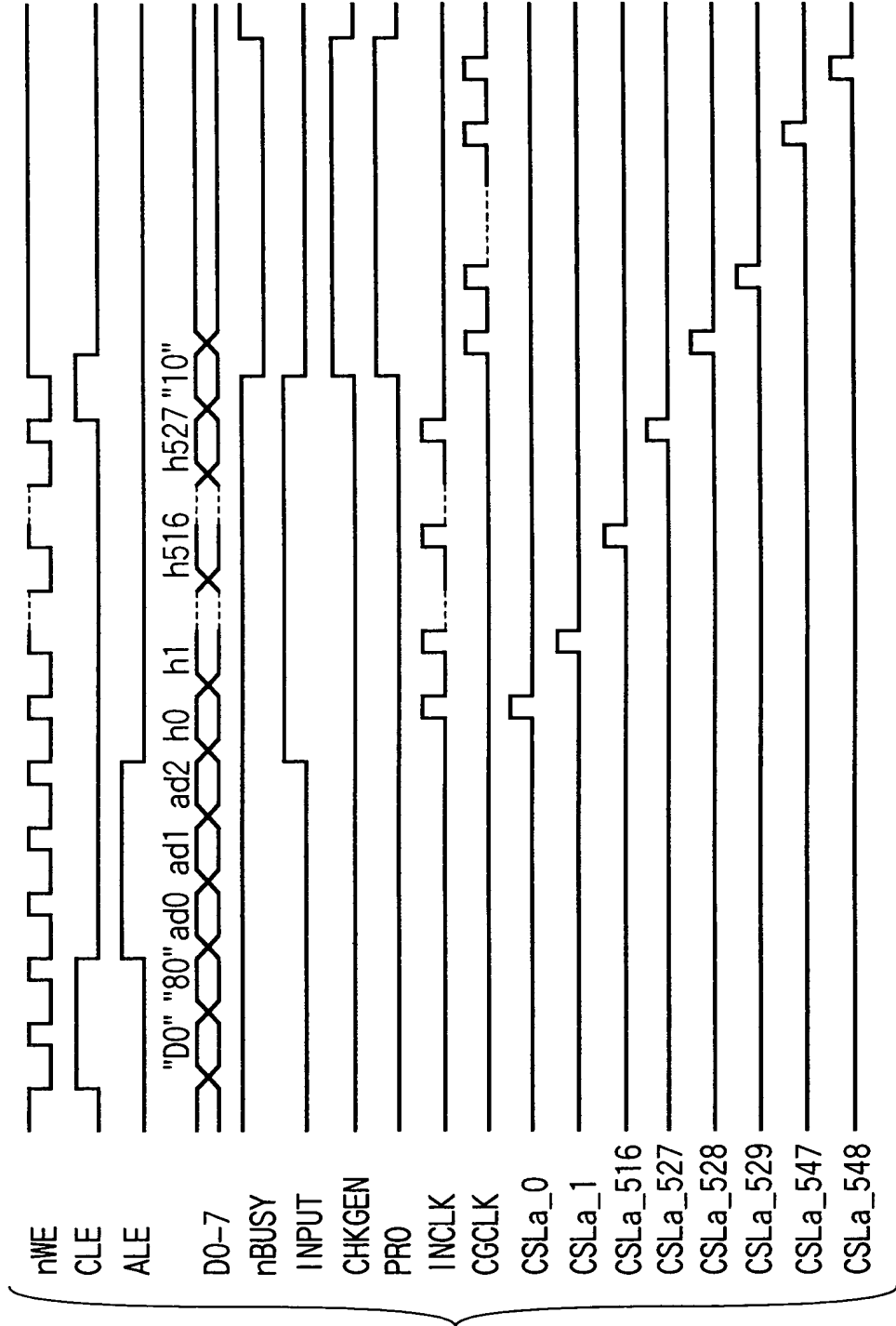


FIG. 7

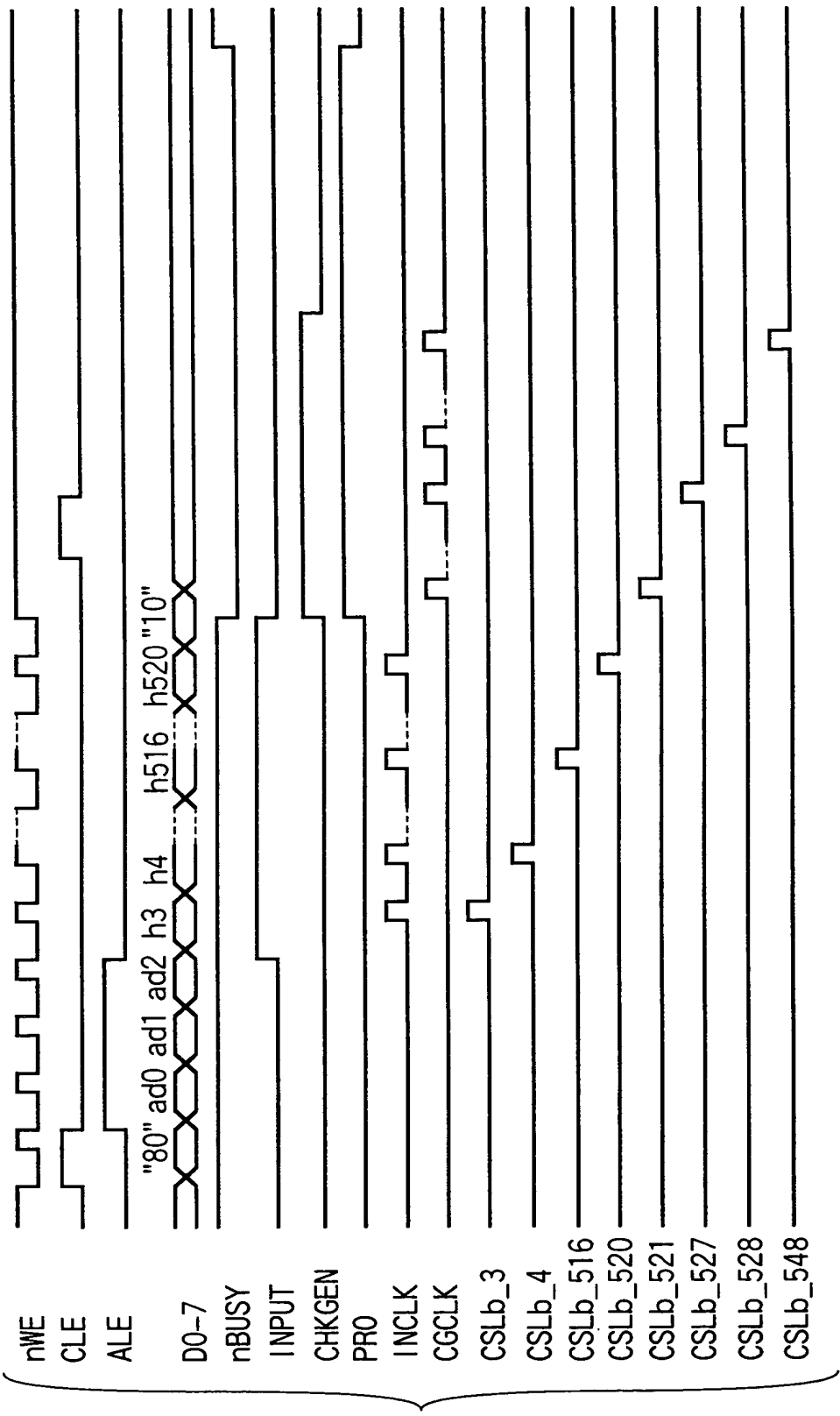


FIG. 8



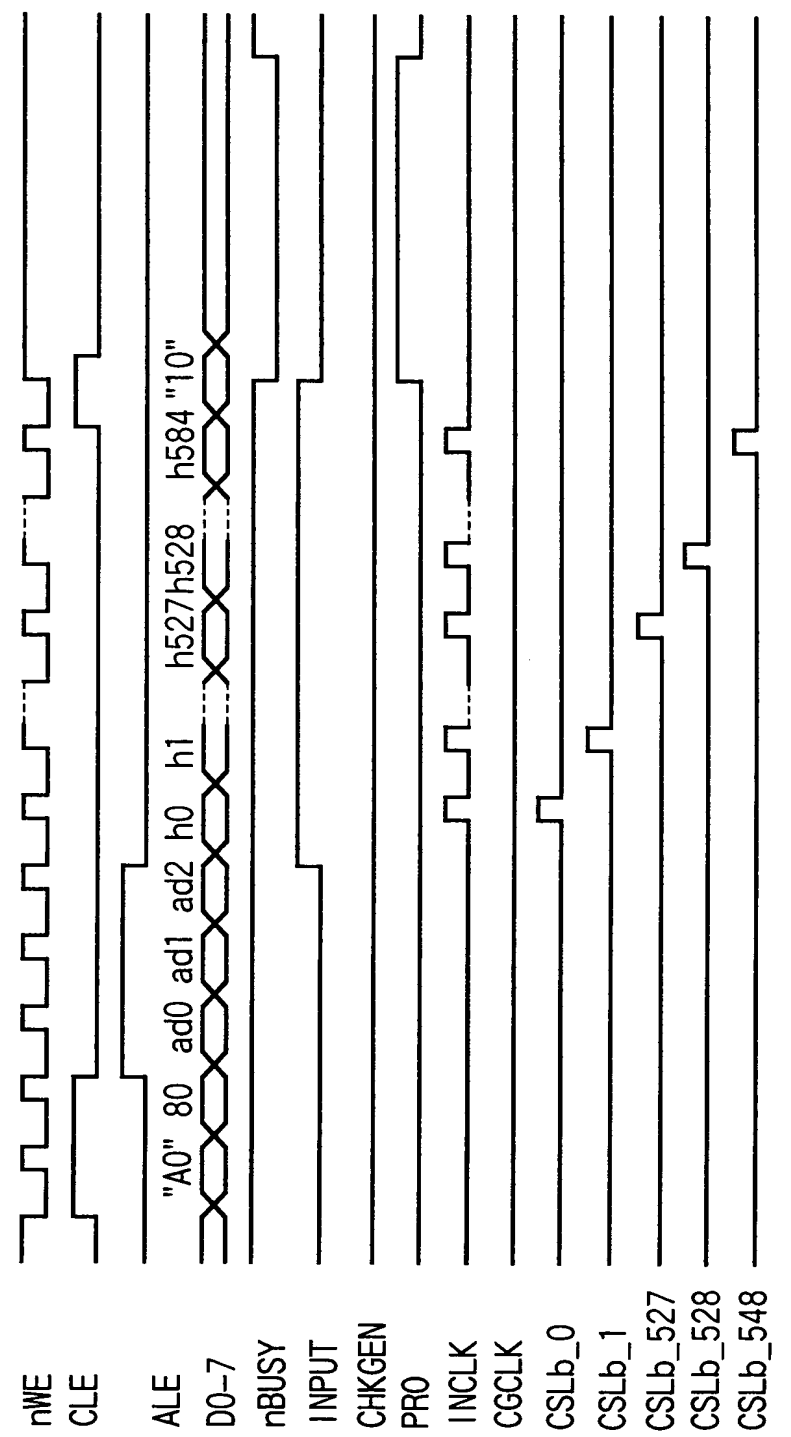
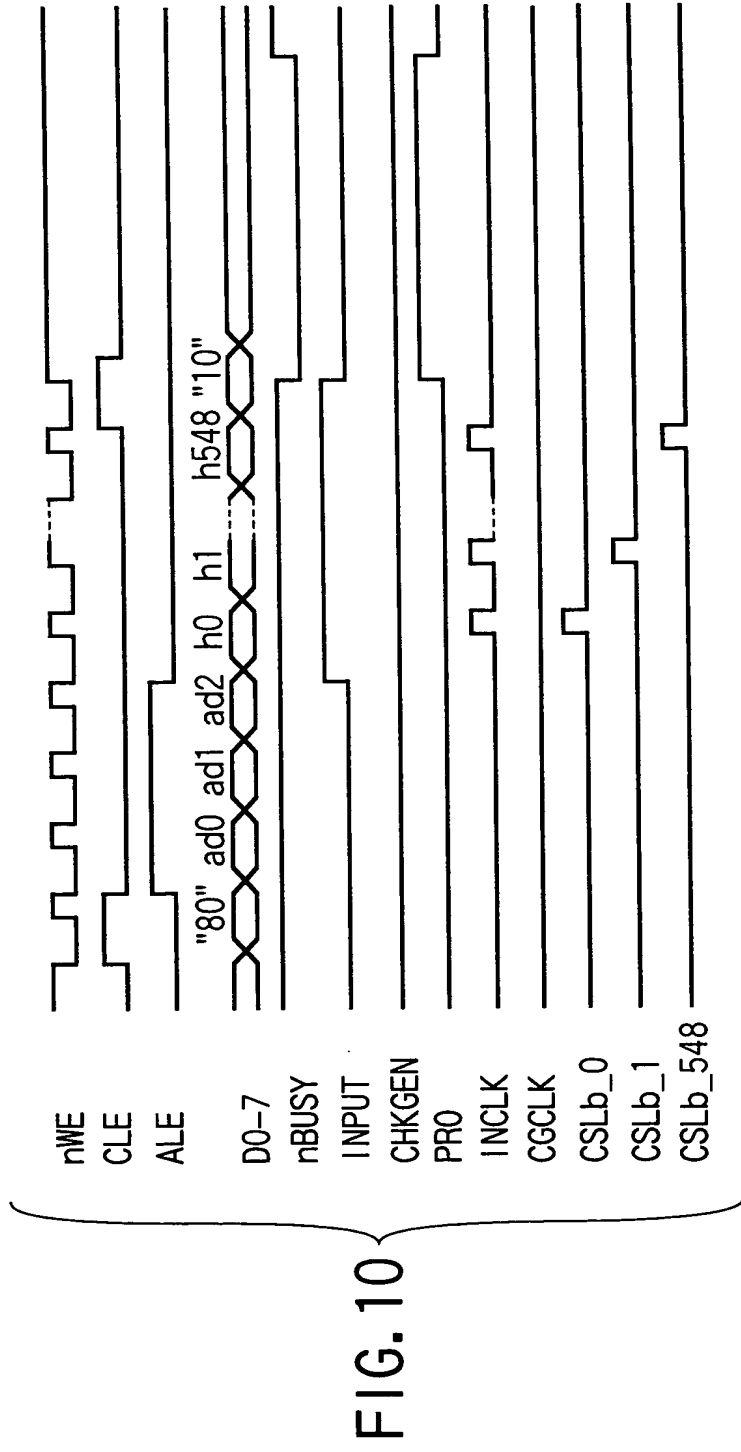


FIG. 9



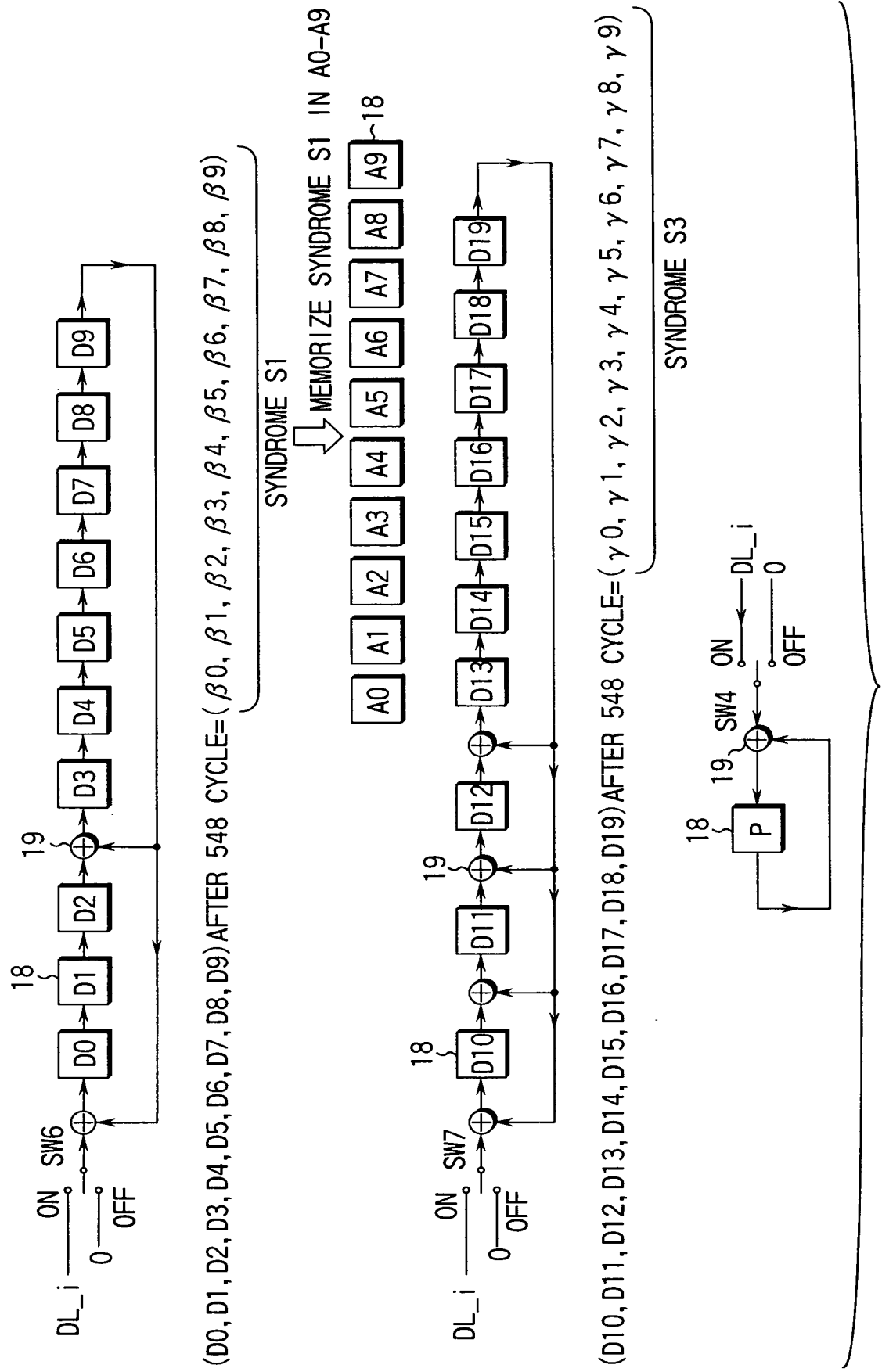


FIG. 11

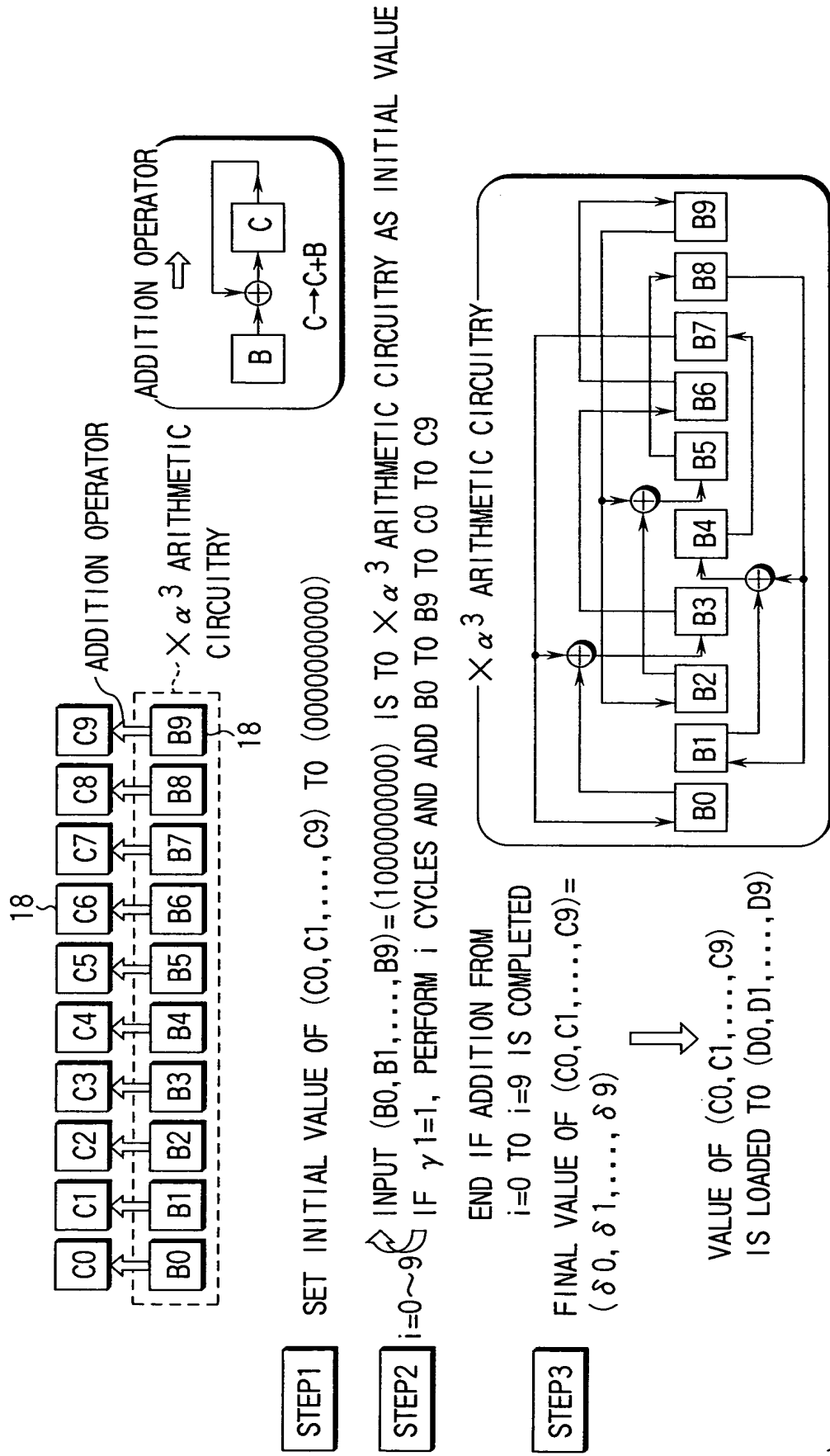
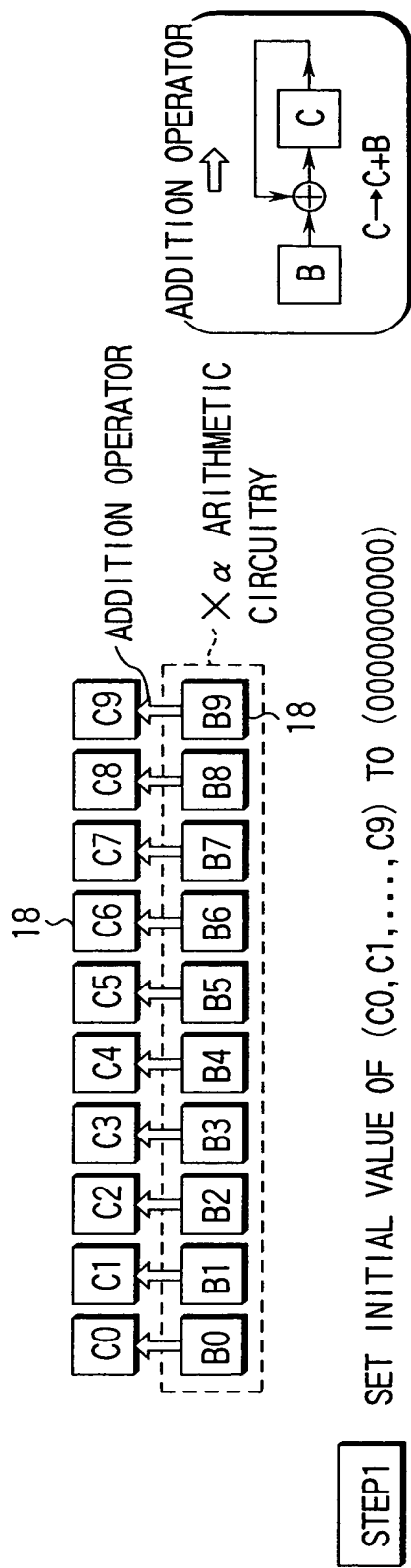


FIG.12

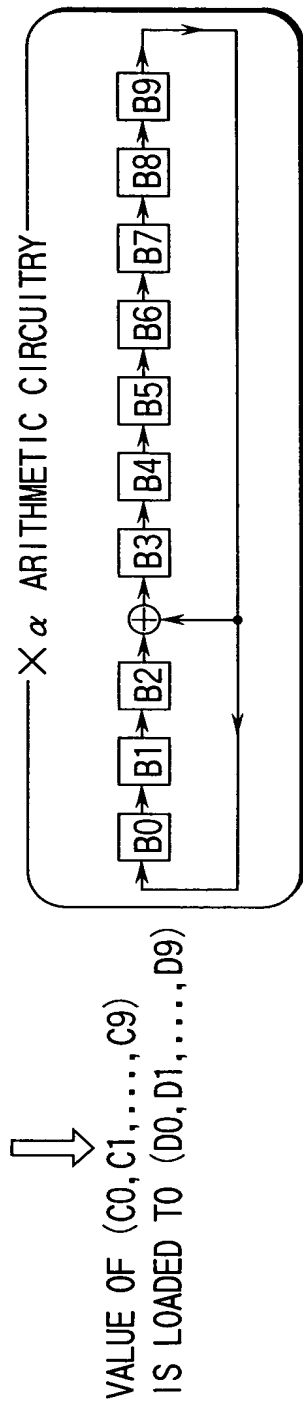


**STEP1** SET INITIAL VALUE OF (C0,C1,...,C9) TO (0000000000)

INPUT (B0,B1,...,B9)=( $\beta_0, \beta_1, \dots, \beta_9$ ) IS  
 TO  $\times \alpha$  ARITHMETIC CIRCUITRY AS INITIAL VALUE

**STEP2**  $i=0 \sim 9$   
 IF  $\beta_1=1$ , PERFORM  $i$  CYCLES AND ADD B0 TO B9 TO C0 TO C9  
 END IF ADDITION FROM  
 $i=0$  TO  $i=9$  IS COMPLETED

**STEP3** (C0,C1,...,C9)=( $\sigma_0, \sigma_1, \dots, \sigma_9$ )



VALUE OF (C0,C1,...,C9)  
 IS LOADED TO (D0,D1,...,D9)

FIG.13

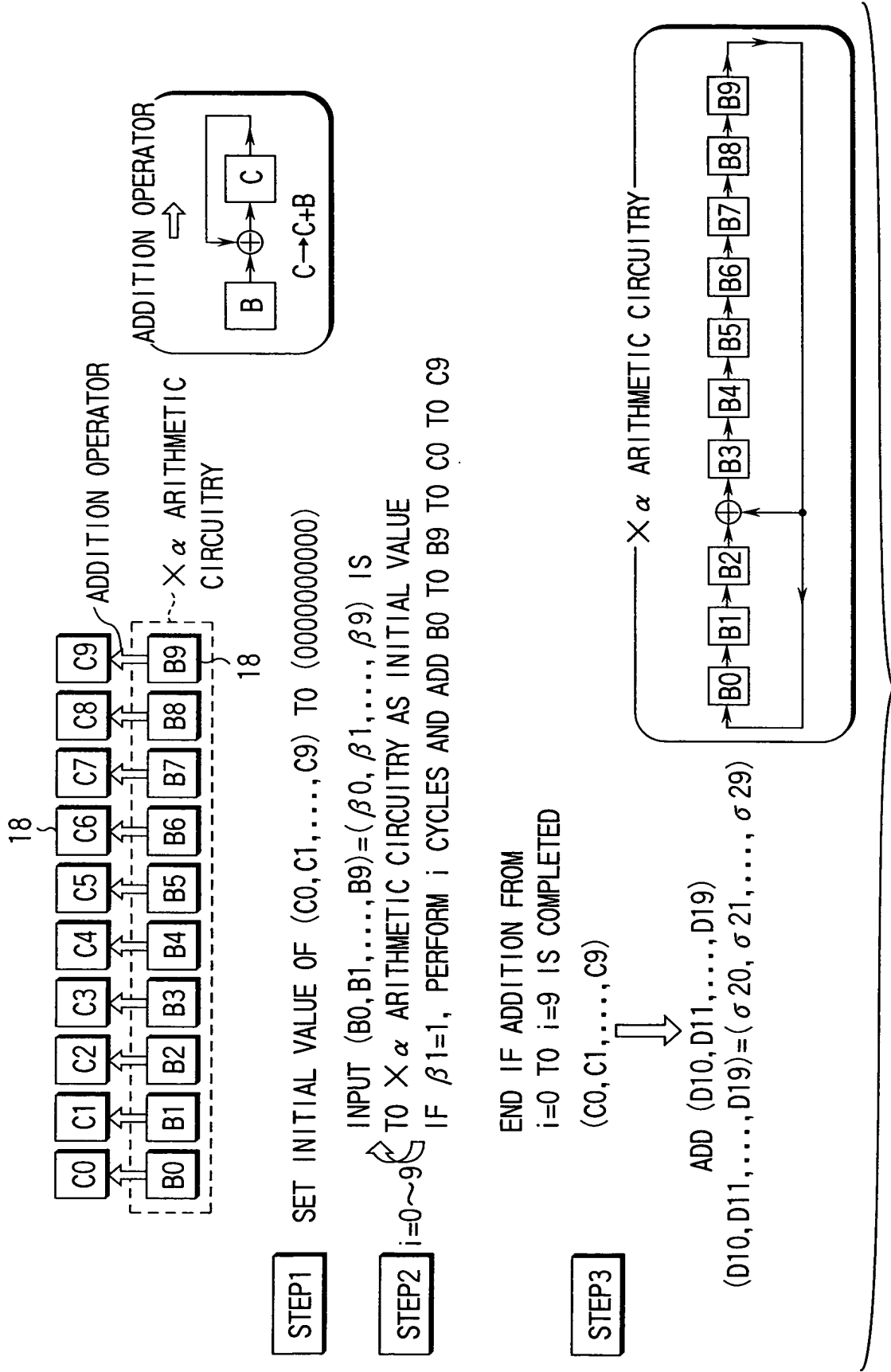
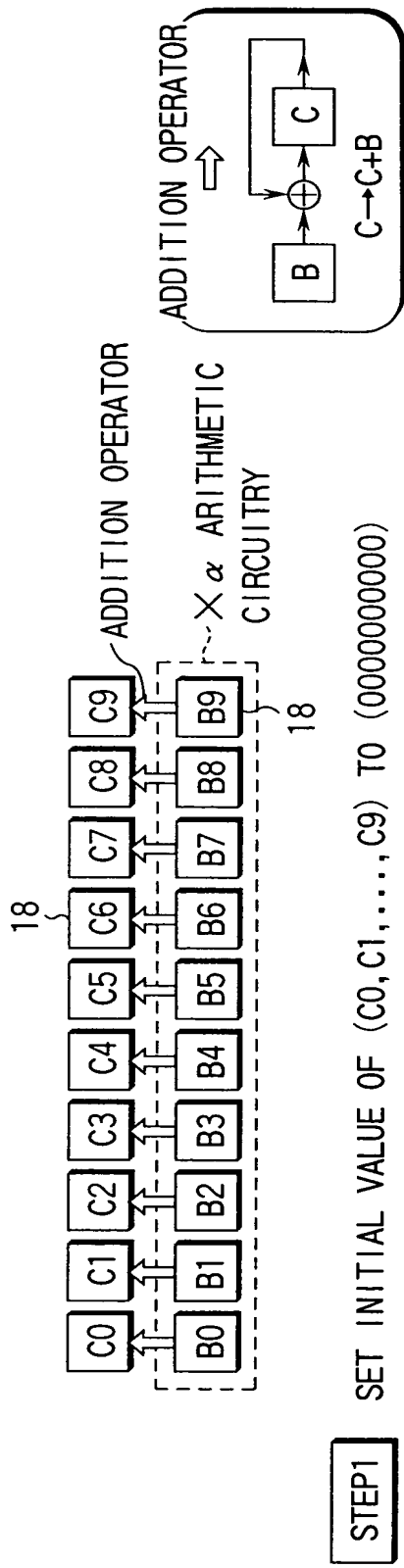


FIG. 14



**STEP1** SET INITIAL VALUE OF (C0,C1,...,C9) TO (0000000000)

INPUT (B0,B1,...,B9)=(1010001111) IS

TO X α ARITHMETIC CIRCUITRY AS INITIAL VALUE

**STEP2** i=0~9 IF σ 1 i=1, PERFORM i CYCLES AND ADD B0 TO B9 TO C0 TO C9

END IF ADDITION FROM  
i=0 TO i=9 IS COMPLETED

**STEP3** (C10,C11,...,C19)=(σ 10, σ 11,..., σ 19) X α 457

VALUE OF (C10,C11,...,C19) IS LOADED TO  
(D10,D11,...,D19)  
(D0,D1,...,D9)=(λ 10, λ 11,..., λ 19)

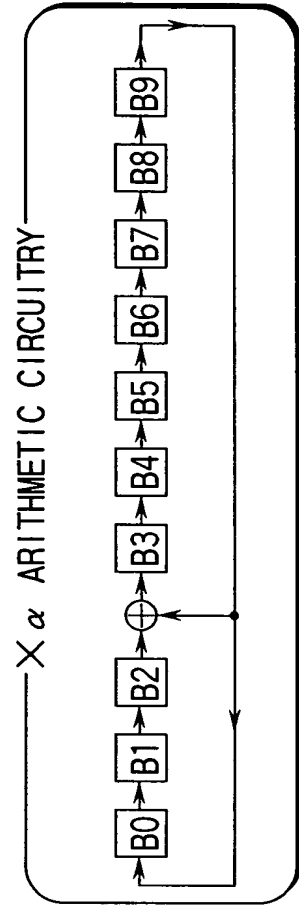
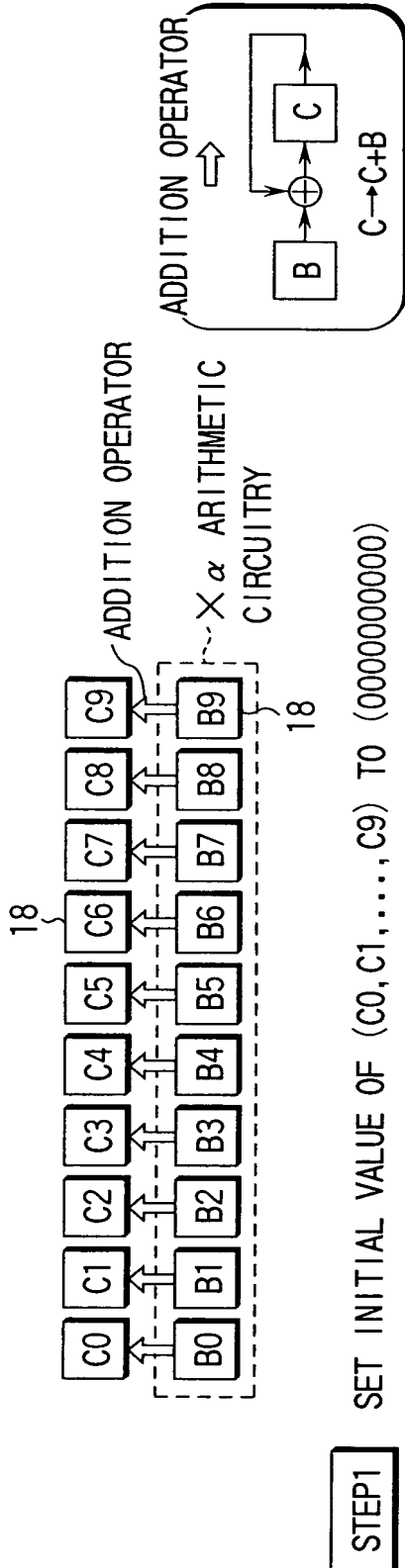


FIG.15



**STEP1** SET INITIAL VALUE OF (C0,C1,...,C9) TO (0000000000)

INPUT (B0,B1,...,B9)=(1110111111) IS  
**STEP2**  $i=0 \sim 9$  TO  $\times \alpha$  ARITHMETIC CIRCUITRY AS INITIAL VALUE  
 IF  $\sigma 2i=1$ , PERFORM  $i$  CYCLES AND ADD B0 TO B9 TO C0 TO C9

END IF ADDITION FROM  
 $i=0$  TO  $i=9$  IS COMPLETED

**STEP3** (C0,C1,...,C9)=( $\sigma 20, \sigma 21, \dots, \sigma 29$ )  $\times \alpha 950$

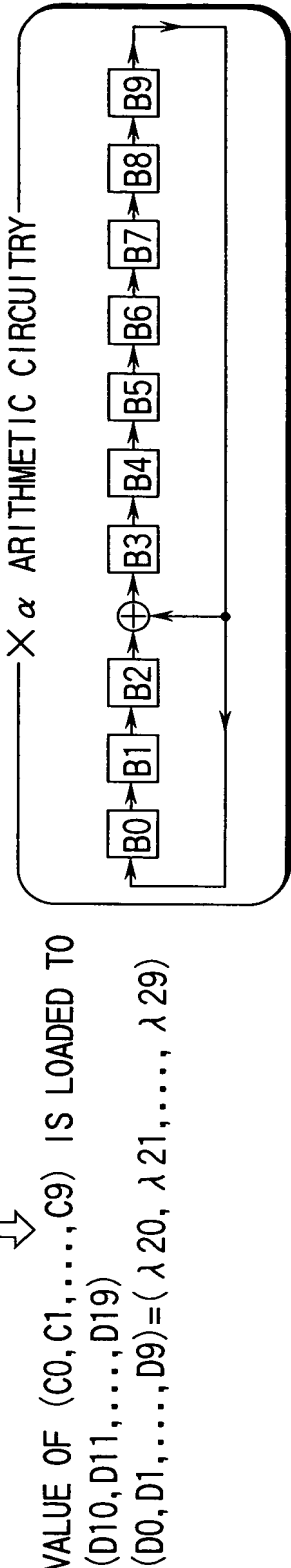


FIG.16



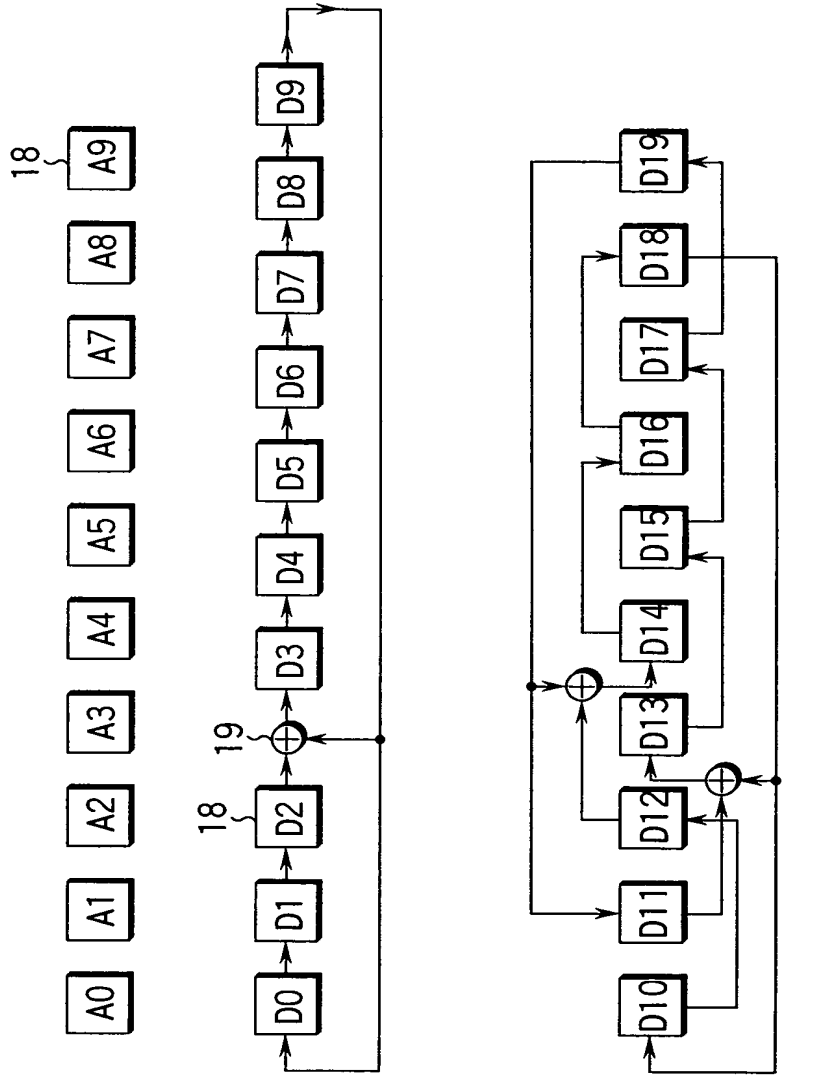


FIG.17

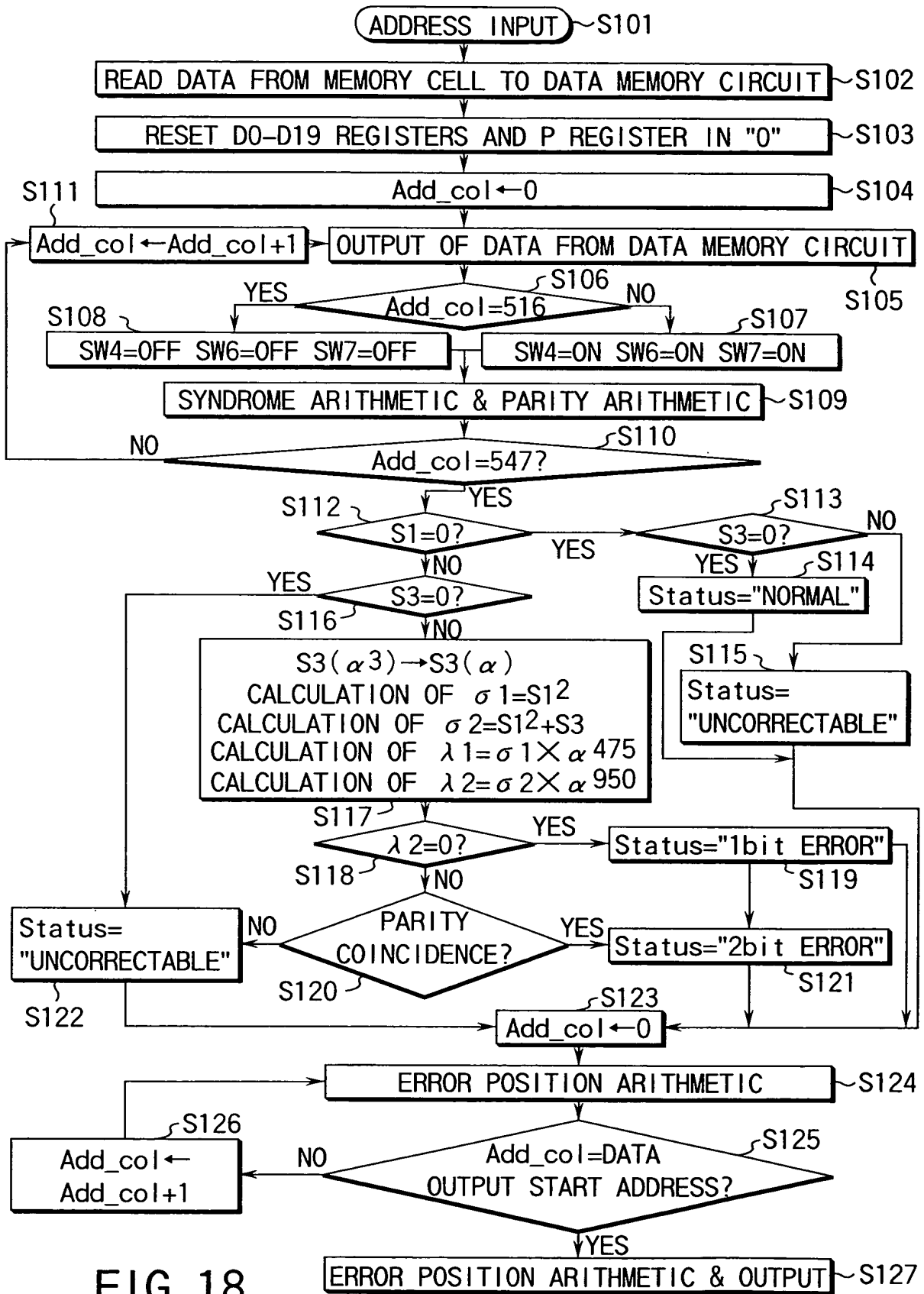


FIG. 18

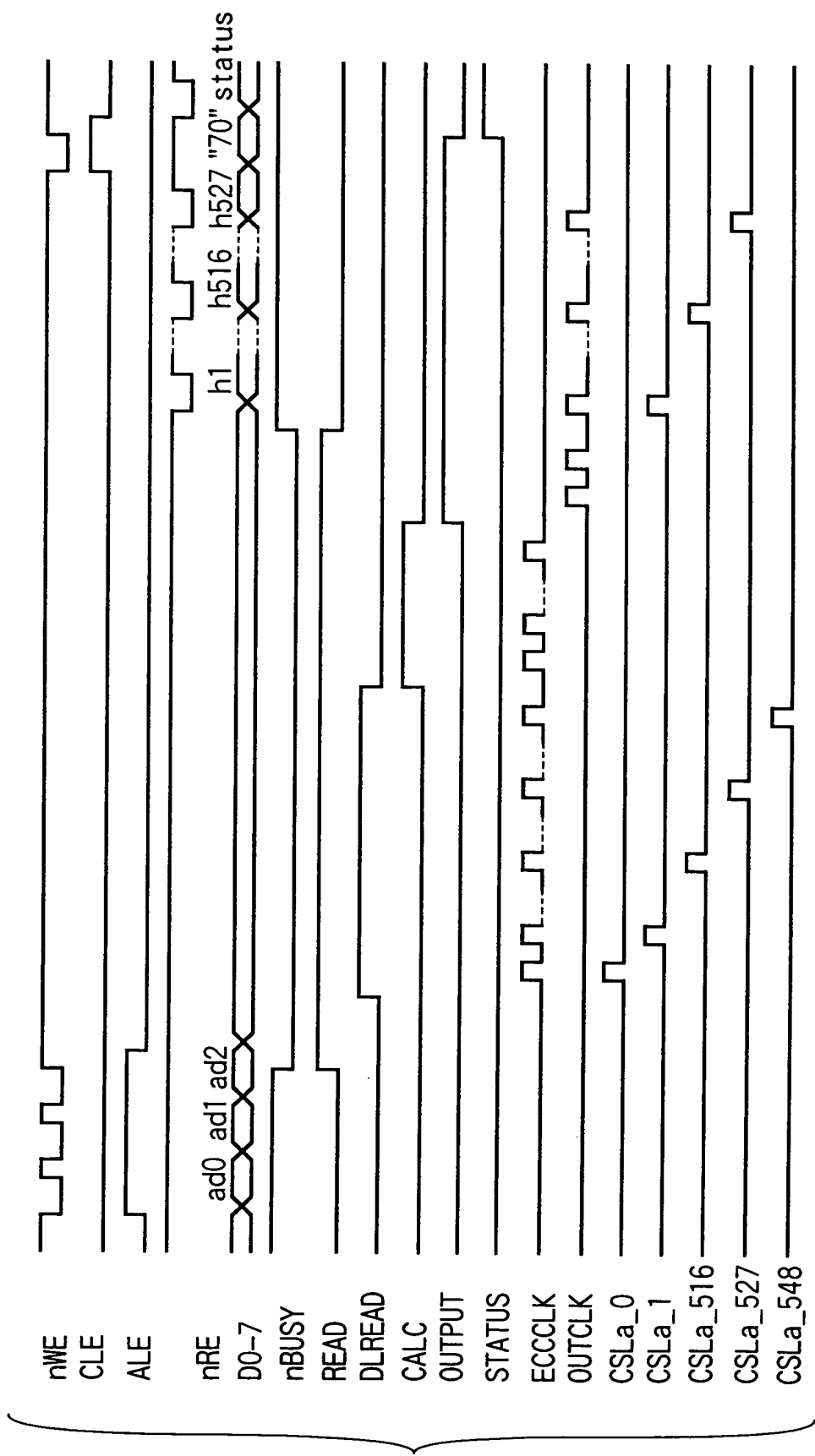


FIG. 19

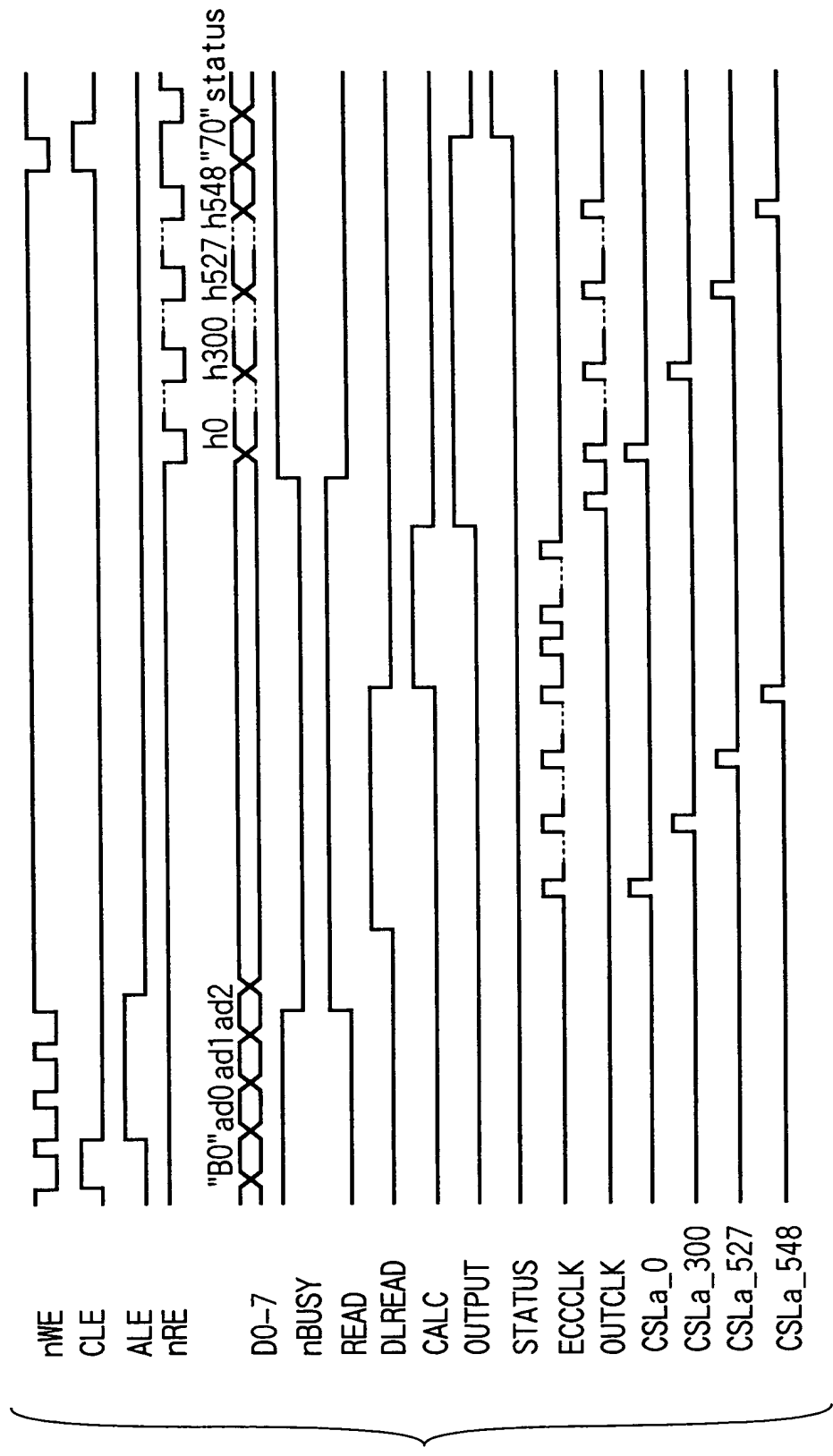


FIG. 20

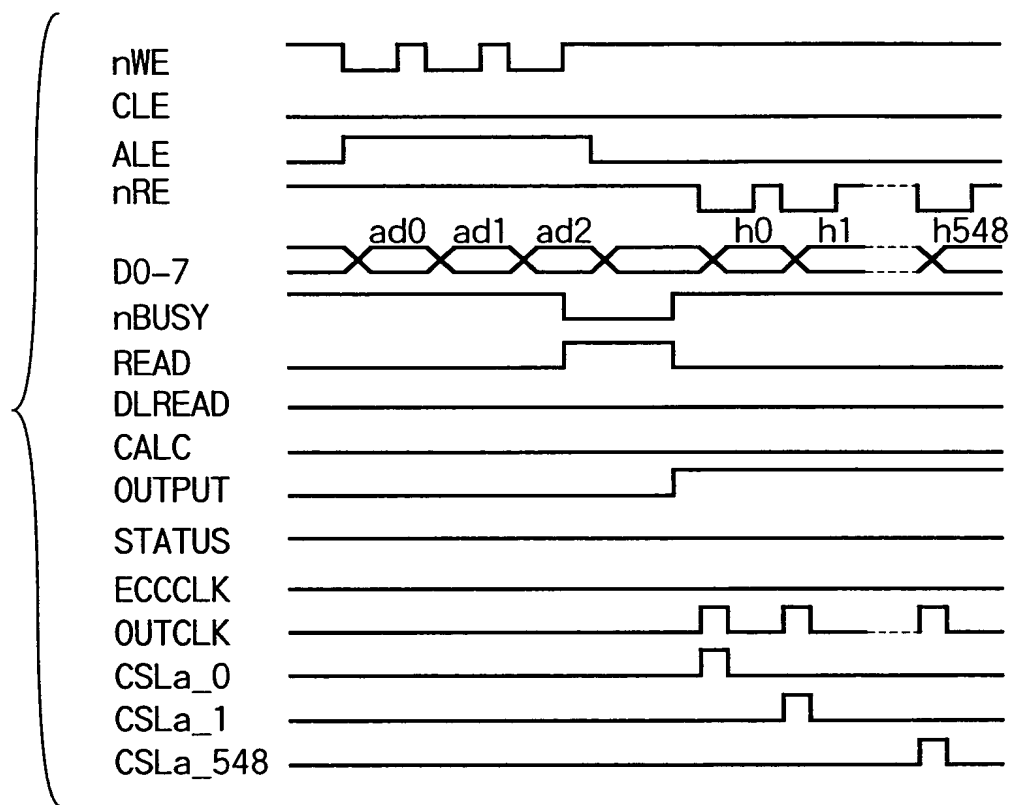


FIG. 21

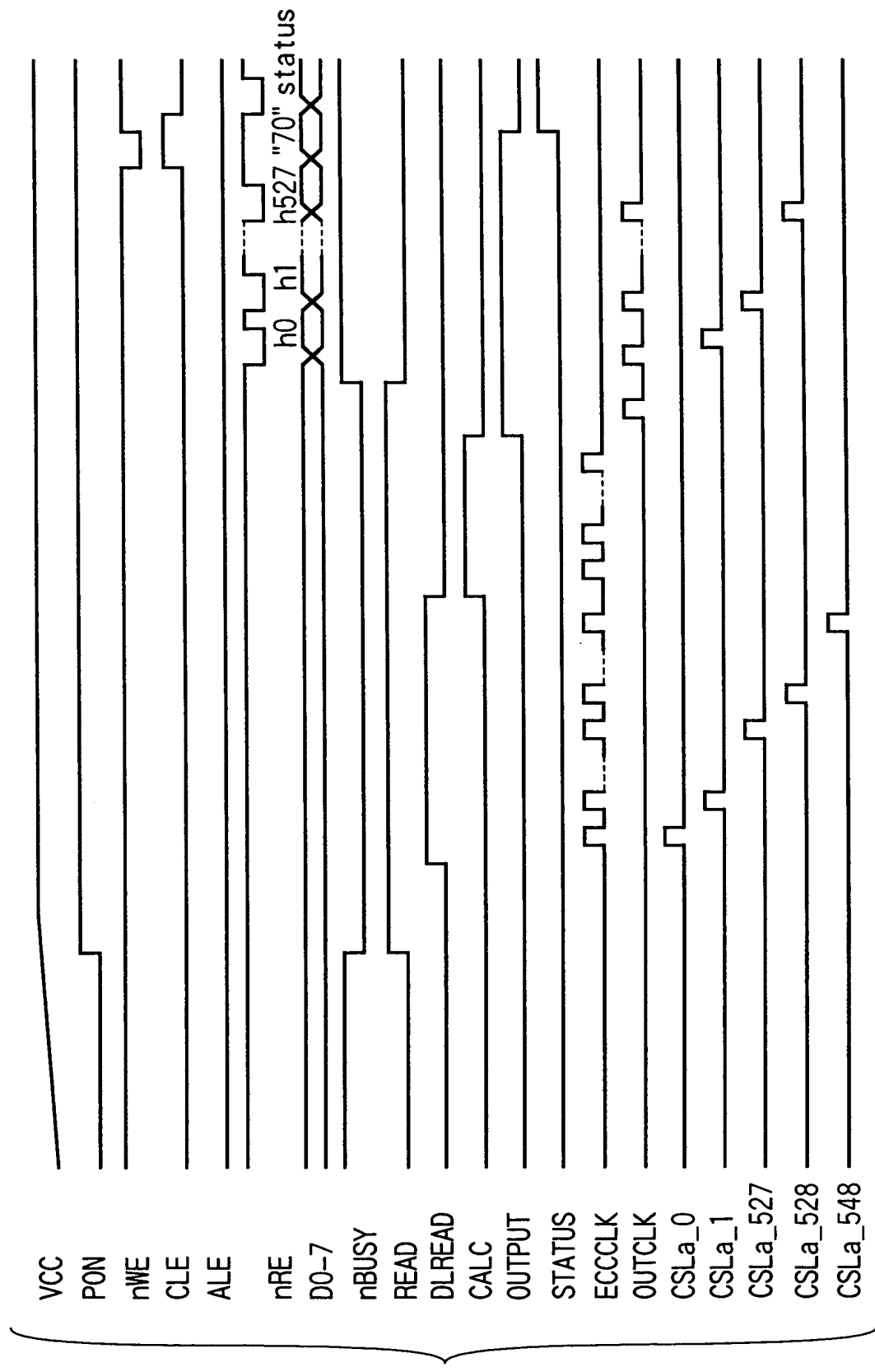


FIG. 22

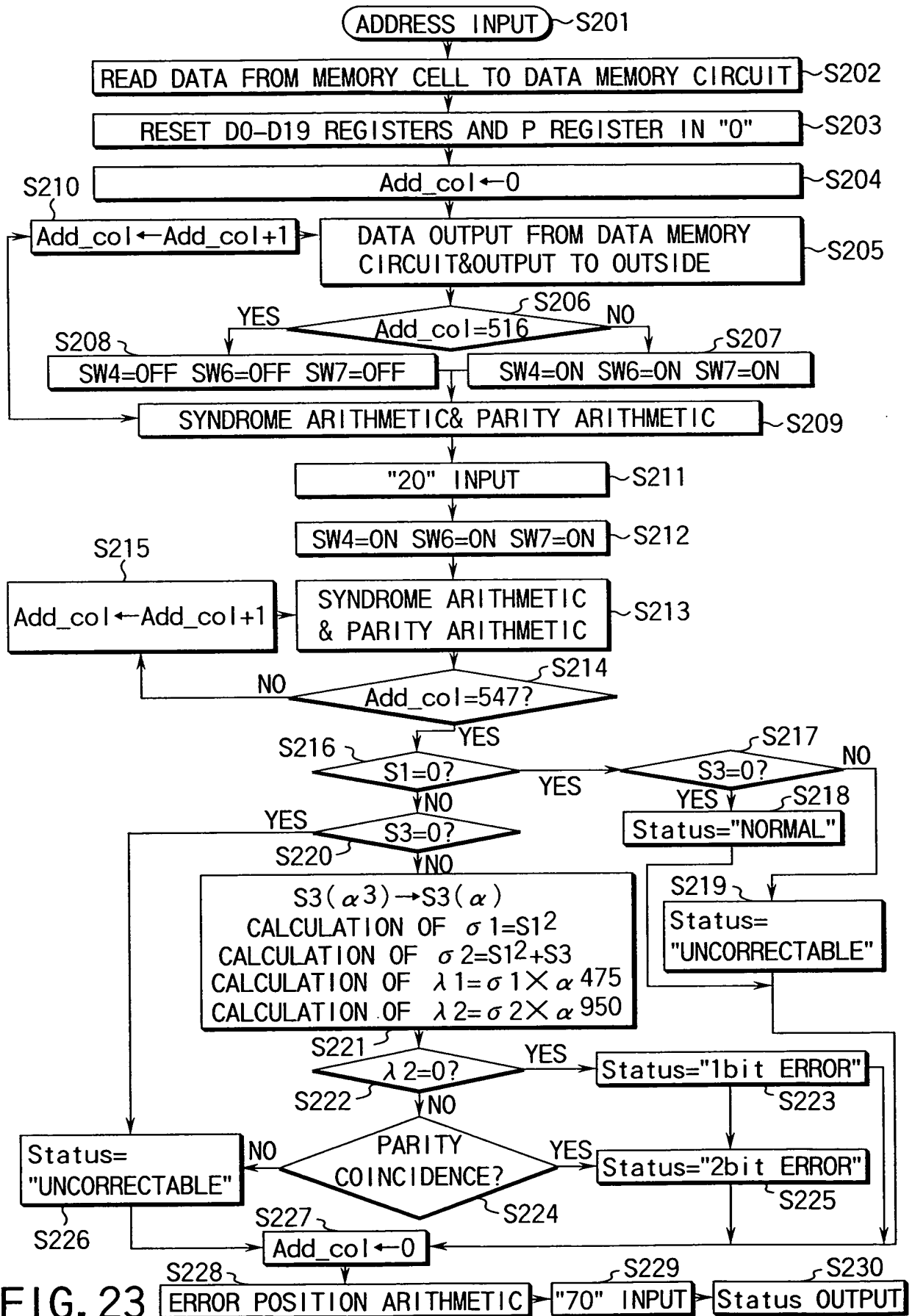


FIG. 23

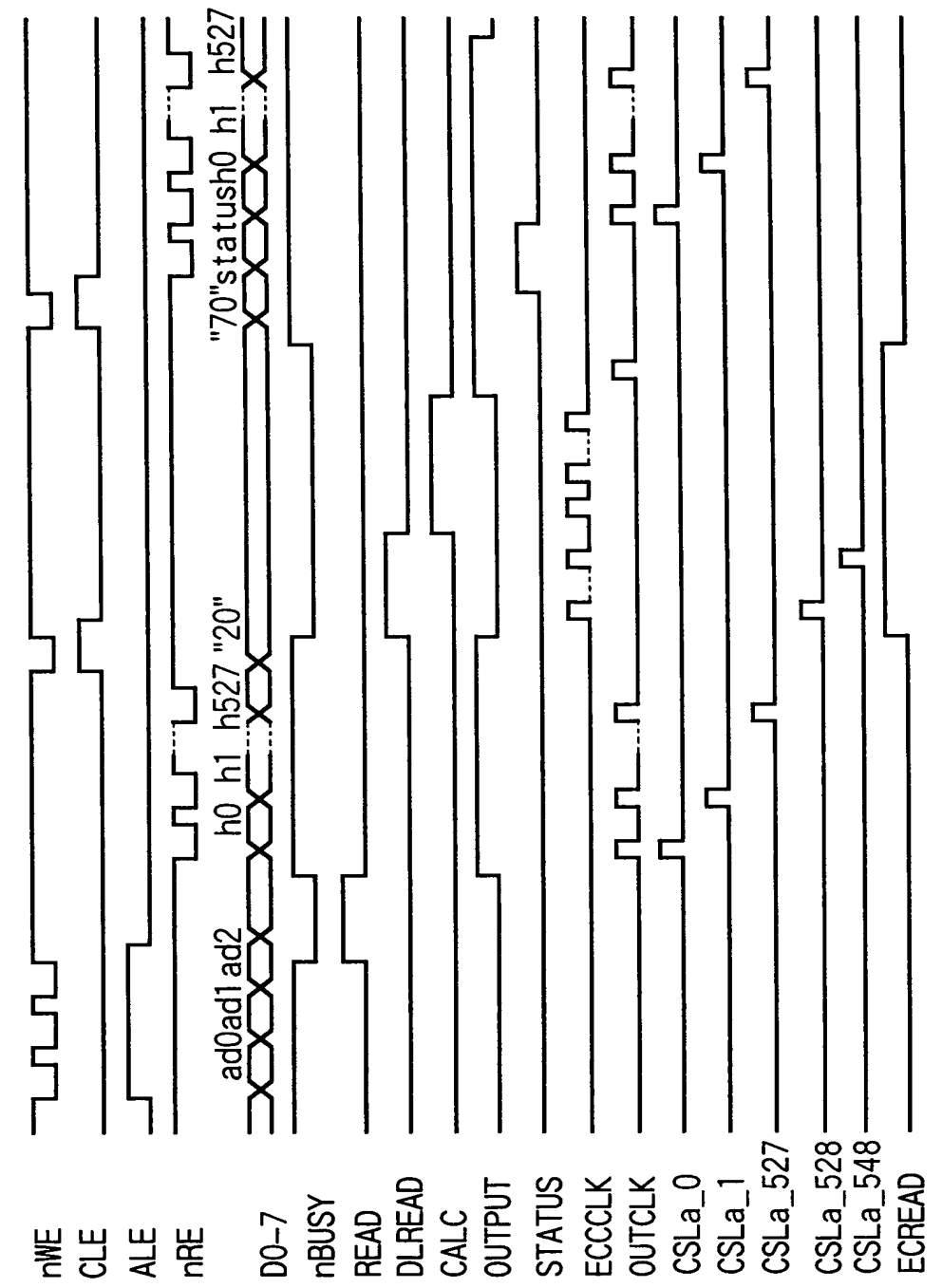


FIG. 24



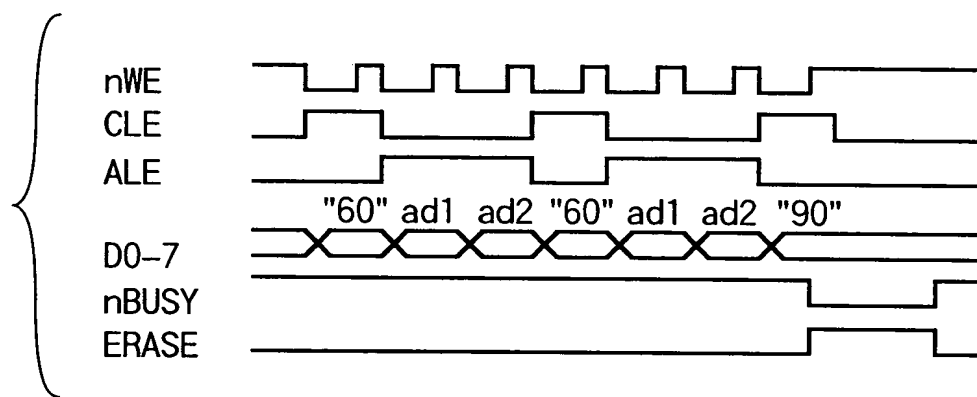


FIG. 25